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*This is a voluntary Board of Advisors appointed for terms of two years, to give such counsel and advice as they may be asked to suggest on matters pertaining to the work of the Division of Agriculture.

ORGANIZATION AND PURPOSE

The Division of Agriculture was organized in the belief that there is an educational demand for agricultural instruction from the upper grades of the elementary schools to the end of the college course. The work of the American agricultural colleges for fifty years has so developed this demand that every progressive university is put under obligation to offer the opportunity for instruction in agriculture as part of a liberal and technical education. Agricultural education can and should be made general and accessible to all who desire it.

In the organization of this division, Syracuse University definitely establishes an undertaking which it has planned and cherished for years. It does not ask the farmers of New York to serve the University, but it seeks to assist in serving the educational interests of the better trained, more contented and more prosperous farmers of the future. Most of the State agricultural colleges are overcrowded with students and rulings are made that limit the number allowed to enter. Syracuse now opens a door of opportunity to students who wish to study agriculture for other reasons than the inducement of free tuition. It welcomes those who wish to equip themselves for the broadest and most efficient service to their own communities and to the State. The conditions of entrance are not unreasonable or difficult to meet, but the student who stays through to graduation must do much of rigorous, painstaking work.

FACILITIES FOR INSTRUCTION

For several years the University has owned a farm of one hundred acres, inside the city limits of Syracuse and within a short walk from the Campus. It is stocked with a herd of registered Holsteins, several breeds of swine, and representative types of farm horses and poultry. The University Farm is conducted on a practical commercial basis, and is equipped with buildings of moderate cost, designed to illustrate the best possibilities of practical farm use. Other livestock and farm equipment will be added as the agricultural course develops. No attempt will be made to carry on experiment station undertakings; but some representative demonstration work, adapted to local conditions, will be done, particularly in the growing of alfalfa, farm drainage, orchard improvement, and crop rotation.

The region about Syracuse is favored with agricultural conditions that are representative of the best average possibilities in the State in the lines of general agriculture, dairying, fruit growing and poultry production. Representative and specialized farms are easily reached for purposes of illustration by class excursions on foot or by electric or steam railways. An important feature of all the agricultural instruction is found in the plan for occasional lectures to be given by specialists and successful commercial farmers who have concrete knowledge of the problems which they discuss.

OPPORTUNITIES OPEN TO AGRICULTURAL GRADUATES

The vocational opportunities open to graduates of the agricultural course may be classified as follows:

1. In the management of general or special lines of practical agriculture; either as owner, partner, manager or tenant. While

much of the sensational writing intended to stimulate migration from the cities to the country may be condemned as extravagant or wholly unwarranted, the possibilities of satisfactory financial returns from intelligent farming were never better than at the present time. New York farmers are specially favored in their proximity to the best American markets.

2. In the profession of expert agriculturist. There is an increasing demand for men who are both scientifically trained and experienced in agriculture to fill important positions in the State and national civil service, in experiment station work, and with corporations interested in agricultural production. A thorough general course in agriculture is a fundamental requirement.

3. In the profession of agricultural engineering. The increasing use of power machinery in farm operations and the economical employment of the natural forces of wind, electricity and water power for farm use; the laying out and construction of correct systems of farm drainage, water supply and sewage disposal; and the selection, improvement and more efficient use of farm implements, all call for specially trained engineering ability. Scarcely enough men can now be found to teach the beginnings of this new profession. There is none more promising to young men who have "grown up on a farm" and who are mechanically inclined.

4. In the teaching of agriculture in the public high schools. It is difficult to find men satisfactorily trained for this service, especially in the new subject of Farm Mechanics. It is almost impossible to secure for these positions men who have had any previous teaching experience or special training for teaching, coupled with technical training and experience in agriculture. As public and official appreciation of the need of both these requirements develops, this will be an attractive field to the capable student who likes teaching. Men who have had successful experience in teaching high school agriculture, and who therefore understand the educational limitations and capabilities of college freshmen, should be the most desirable candidates for promotion to teaching positions in the agricultural colleges, possibly after further special study. The average college graduate in technical agricultural courses only is neither ideally nor practically equipped to teach agriculture to high school freshmen.

Finally, it may be suggested, that the university student who is preparing for the profession of law, medicine, the Christian ministry, or education, would profit greatly by including some work selected from the courses in agriculture. There is a quality of concreteness in the study of agricultural facts, principles and affairs that goes far to balance, and so to liberalize, the literary tendencies of the learned professions. There is no natural or necessary enmity between culture and agriculture.

REQUIREMENTS FOR ADMISSION

The usual fifteen units for college entrance in the B. S. course, including 3 in English, 2½ in Mathematics, 2 in Science, 1 in History, 1 in Drawing, and 2½ Elective, are required for regular entrance upon the four-year course in Agriculture; but the remaining three units are not *required* to be in one or more foreign languages.

French, German or Latin are accepted for entrance, but in their stead at least three units in Agriculture may be offered by candidates who have satisfactorily completed the approved New York high school course in Agriculture as outlined in the State Education Department Bulletins 494 and 500. Agricultural units of clear equivalent value, earned either in New York or other States, will also be accepted. Three units in approved subjects other than agriculture or foreign language may be offered instead; the electives required for entrance being considered in such cases as extended from 2½ to 5½ units.

Th same units in Agriculture will not be accepted both for entrance and for advanced credit. The amount of advance credit allowed for agricultural work done in secondary or special schools will in all cases be determined by special investigation before the beginning of the University year, unless such schools are definitely included in the University approved list for this purpose. Advance credits for work in other subjects, as pedagogy, science or history, will be similarly determined. Standings offered by undergraduates of other colleges or universities will be accepted on the presentation of a certificate of honorable dismissal.

Students who present agriculture for entrance or advance credit are not necessarily relieved from taking courses of the same name in this Division. For the present such cases will be individually provided for on their merits. In some instances students may be advised or required to take up the study of a special subject in one of the Colleges of the University as an equivalent for the hours of credit allowed in agriculture.

All entrance conditions must be adjusted within the time limit specified in the general regulations of the University. Students who complete the requirements of the four-year course in the Division of Agriculture will receive the University degree of Bachelor of Science in Agriculture (B. S. A.). In all cases at least one year of residence immediately preceding graduation will be required.

NOTE.—The general outline of the Agricultural Course shown on the following page supercedes that announced in the University Bulletin of March 1, 1912, pp. 380-385.

FOUR-YEAR AGRICULTURAL COURSE

Freshman Year

First Semester	Hours	*Second Semester*	Hours
English I	3	English I	3
Plane Trigonometry	2	Plane Trigonometry	2
*Chemistry I or		*Chemistry I or	
*Physics I	3	*Physics I	3
*Botany X or *Zoology I	3	*Botany XVIb	3
Geology IIa	2 or 3	Geology IIa	2 or 3
Mechanical Drawing I	2	Mechanical Drawing XI	2
Farm Mechanics I	2	Farm Mechanics II	2

Sophomore Year

First Semester	Hours	*Second Semester*	Hours
**English XXIa	2	**Public Address IVa	2
Industrial History (Econ. I)	3	Prin. of Economics (Econ. II.)	3
Chemistry IIIb	3	Chemistry IIIb	3
Botany XXXa	3	Geology Vd	3
Field Crops I	4	Field Crops I	4
Horticulture I	3	Animal Husbandry I	3
Farm Mechanics III	2	Farm Mechanics IV	2

Junior Year

First Semester	Hours	*Second Semester*	Hours
*Agricultural Chemistry (XXV) or		*Agricultural Chemistry or	
*General Bacteriology (I)	3	*Agricul. Bacteriology (IV)	3
Animal Husbandry II	4	Animal Husbandry II	4
Animal Husbandry III	3	Animal Husbandry III	3
Horticulture II	2	Horticulture II	2
**Forestry I	2	**Forestry I	2
**Sociology I	2	*Rural Sociology (XI)	3
**Mechanical Drawing XII	3	**Agricultural Engineering	

Senior Year

First Semester	Hours	*Second Semester*	Hours
Agricultural Chemistry (XXIVa)	3	Dairy Chemistry (XXIVb)	2
Dairy Husbandry (I)	3	Economic Entomology	3
Dairy Bacteriology (III)	2	Dairy Industry (II)	4
Horticulture III	4	Dairy Bacteriology (III)	2
Farm Forestry (XI)	3	Horticulture IV	3
Meteorology I and II	2	Botany XXXb or XIIIa	3
Agricultural Economics (XIV)	3	Farm Management and Bookkeeping	3

*Subjects thus indicated are alternative requirements or electives.
**Subjects thus indicated are general or free electives. Some of these, however, are required in certain group electives. (See pages 7 and 8.)

GENERAL REQUIREMENTS FOR THE AGRICULTURAL COURSES

In general, the agricultural student is expected to follow the order of studies as arranged in the Freshman and Sophomore years, unless he enters with advance credit covering some of these subjects, in which case his classification will be arranged by consultation with the Director. Students are not allowed to take more than eighteen hours' work per week in the first year or twenty hours in the second year except by special permission or requirement; but all capable students are urged to elect the Sophomore work in English.

GROUP REQUIREMENTS

With the beginning of the Junior year care must be used to elect all the subjects that are prerequisite to the student's chosen group in the Senior year. For the sake of clearness, the following summary of the minimum requirements for each of these groups is given:

COURSE IN GENERAL AGRICULTURE (GROUP A)

JUNIOR YEAR.—All the subjects required in common with the other groups (Animal Husbandry II, III, and Horticulture II), Mechanical Drawing XII, Agricultural Engineering, Rural Sociology, and either Agricultural Chemistry XXV or General and Agricultural Bacteriology. Free electives to a total of 16 hours may be added, or by special permission to 20 hours.

SENIOR YEAR.—Dairy Husbandry and Dairy Industry, Horticulture III, IV, Forestry XI, Meteorology I, II, Economic Entomology, Agricultural Economics, with Farm Management and Bookkeeping. Electives may be added on approval of the Director.

COURSE IN ANIMAL HUSBANDRY (GROUP B)

JUNIOR YEAR.—All the subjects required in common with the other groups (as in Group A). Agricultural Chemistry XXV, Mechanical Drawing XII, and Rural Sociology, with electives as in Group A.

SENIOR YEAR.—Agricultural Chemistry XXIVa, Dairy Husbandry I, Economic Entomology, Agricultural Economics, with Farm Management and Bookkeeping. Electives as in Group A.

COURSE IN DAIRYING (GROUP C)

JUNIOR YEAR.—All the subjects required in common with other groups, General Bacteriology, Mechanical Drawing XII, and Rural Sociology, with electives as in Group A.

SENIOR YEAR.—Agricultural Chemistry XXIV a and b, Dairy Husbandry, Dairy Industry, Dairy Bacteriology, Agricultural Economics, with Farm Management and Bookkeeping. Electives as in Group A.

COURSE IN HORTICULTURE (GROUP D)

JUNIOR YEAR.—All the subjects required in common with other groups, General and Agricultural Bacteriology, Agricultural Engineering and Rural Sociology, with electives as in Group A.

SENIOR YEAR.—Horticulture III, IV, Forestry XI, Botany XXXb, Meteorology I, II, Economic Entomology, Agricultural Economics, with Farm Management and Bookkeeping. Electives as in Group A.

COURSE IN AGRICULTURAL ENGINEERING (GROUP E)

FRESHMAN AND SOPHOMORE YEARS.—All the subjects required in common with other groups, except Field Crops and Animal Husbandry, substituting for these approved electives in the College of Applied Science.

JUNIOR YEAR.—Mechanical Drawing XII and Agricultural Engineering (Farm Mechanics V), with additional electives approved by the Director and the Dean of the College of Applied Science.

SENIOR YEAR.—Forestry XI, with additional electives (50 hours) determined as in the Junior Year, to complete 120 semester hours for the diploma in Agricultural Engineering.

TEACHERS COURSE (GROUP F)

JUNIOR YEAR.—All the subjects required in common with the other groups, Agricultural Chemistry XXV, General and Agricultural Bacteriology, Sociology I, XI, and Agricultural Engineering. Electives by individual arrangement with the Director.

SENIOR YEAR.—Agricultural Chemistry XXIV a and b, Dairy Husbandry and Dairy Industry, Dairy Bacteriology (second semester), Horticulture III, IV, Forestry XI, Botany XXXa, Meteorology I and II, Economic Entomology, Agricultural Economics, with Farm Management and Bookkeeping. Approved electives (7 hours) in Teachers College must be taken during the four years to complete a total of 135 semester hours for the Teachers Diploma in Agricultural Education.

This course is approved by the State Education Department as qualifying holders of the diploma for the State certificate as teachers of vocational courses in Agriculture in New York high schools. Only the most capable students will be advised to elect this course. It is expected that candidates will generally be able to enter the Division with sufficient advanced credit, acquired in summer courses, normal instruction or teaching experience, to complete the required work in four years. In exceptional cases the teacher's diploma in Agriculture may be earned in a shorter period. In allowing advanced credit in this course, each case is dealt with on its merits by a committee consisting of the Chancellor of the University, the Dean of the Teachers College, and the Director of the Division of Agriculture. Correspondence should first be had with the latter.

EXPENSES

Tuition and expenses reasonable. Until further notice, the same tuition will be required as for the Science Course in the College of Liberal Arts.

When a student pursuing the Agricultural course is dependent upon his own resources, if it should appear necessary, the University will accept his note for one-half the tuition charges. This note must be signed by two responsible persons of legal age.

Students who need to increase their income while in college can frequently find employment of various kinds in the city. It is seldom that deserving and capable students cannot find the means of earning money in occupations not inconsistent with their college duties, but it

is difficult to pay all expenses by outside work. If one has means sufficient for the first year, he might earn enough by diligence and economy to pay his way through college.

An estimate of the student's personal expenses for board, room, books, stationery, laundry and incidentals, averaging from $200 to $400 a year, may be found in the general University Bulletin, pp. 56, 57.

SHORT COURSES

In addition to the courses outlined on pages 6-8, special short courses in Agriculture will be given each year beginning in January, 1912, and also in the Summer School. Timely announcements of these courses may be had on application to the Registrar.

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